Revision 1

#13538 Store at -20C

DAX1 (D2F1) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC	H	Endogenous	48	Rabbit IgG	#P51843	190

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:400
Immunofluorescence (Immunocytochemistry)	1:3200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

DAX1 (D2F1) recognizes endogenous levels of total DAX1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly330 of human DAX1 protein.

Background

DSS-AHC critical region on the X chromosome protein 1 (DAX1) is an orphan nuclear receptor encoded by the nuclear receptor subfamily 0 group B member 1 (*NR0B1*) gene. DAX1 possesses an atypical DNA binding domain that allows it to form heterodimeric complexes with DNA binding partners and repress transcriptional activity (1,2). During development, DAX1 is important for establishment of the hypothalamic-pituitary-adrenal gonadal axis. The receptor is essential for development of several important hormone-producing organs that determine this axis, including the adrenal glands, pituitary, hypothalamus, and the male and female reproductive organs (3,4). Research studies suggest that DAX1 plays a role in maintenance of pluripotency in embryonic stem cells (5,6). Loss of DAX1 function through deletion or mutation results in adrenal insufficiency and hypogonadotropic hypogonadism (7), while duplication of the *NR0B1* gene on the X-chromosome causes dosage-sensitive sex reversal (8).

Background References

1. Iyer, A.K. et al. (2006) *Mol Endocrinol* 20, 2326-42.
2. Iyer, A.K. and McCabe, E.R. (2004) *Mol Genet Metab* 83, 60-73.
3. Niakan, K.K. and McCabe, E.R. (2005) *Mol Genet Metab* 86, 70-83.
4. McCabe, E.R. (2007) *Mol Cell Endocrinol* 265-266, 179-82.
5. Uranishi, K. et al. (2013) *Mol Cell Biol* 33, 2056-66.
6. Wang, Q. and Cooney, A.J. (2013) *Adv Exp Med Biol* 786, 287-306.
7. Jadhav, U. et al. (2011) *Mol Cell Endocrinol* 346, 65-73.
8. Sanlaville, D. et al. (2004) *Am J Med Genet A* 128A, 325-30.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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